

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 223 13-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,819	01/23/2004	Tao Deng	H0498.70130US01/TJO 5026	
75	90 06/14/2006		EXAM	INER
Timothy J. Oyer, Ph.D. Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue			DUDA, KATHLEEN	
			ART UNIT	PAPER NUMBER
Boston, MA 02210			1756	
			DATE MAILED: 06/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	10/763,819	DENG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kathleen Duda	1756				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir 7/III apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01 M	ay 2006.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>16-29</u> is/are pending in the application	1.					
4a) Of the above claim(s) <u>16-22</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 23-29 is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r alastian ramuirament					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers		·				
9) The specification is objected to by the Examiner	г.					
10) The drawing(s) filed on is/are: a) □ acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 						
Copies of the certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	· ·	ou iii alio Malional Olago				
* See the attached detailed Office action for a list of	* * * * * * * * * * * * * * * * * * * *	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
Paper No(s)/Mail Date	6) Other:	Patent Application (PTO-152)				

Application/Control Number: 10/763,819 Page 2

Art Unit: 1756

DETAILED ACTION

1. Claims 16-29 are pending in this application.

Election/Restrictions

2. Applicant's election with traverse of Group III, claims 23-29 in the reply filed on May 1, 2006, is acknowledged. The traversal is on the ground(s) that all of the groups can be searched and examined together without undue burden on the examiner. This is not found persuasive because some of the claims do not require photolithography.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Application/Control Number: 10/763,819

Page 3

Art Unit: 1756

4. Claims 23-29 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Deng et al. ("Fabrication of Metallic Microstructures Using Exposed, Developed Silver Halide-Based Photographic Film").

Deng et al. Teach a process of fabricating metallic microstructures by exposing and developing a photographic film followed by electroless and electrochemical plating. See Figure 1, page 646 and page 647 "Methods of Fabrication". The claimed process is taught by Deng et al.

5. Claims 23, 26 and 27 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Lyman (US Patent 2,854,386).

Lyman teaches a process of forming a silver image and then electroplating the image. See claim 1. Lyman does not teach electroless plating recited by other claims of the present application.

Conclusion

6. Any inquiry concerning this communication should be directed to Examiner K. Duda at (571) 272-1383. Official FAX communications should be sent to (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Huff, can be reached at 571-272-1385.

Application/Control Number: 10/763,819 Page 4

Art Unit: 1756

Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kathleen Duda Primary Examiner Art Unit 1756